

LOW PRESSURE DISCHARGE LAMP HAVING A DOUBLE HELIX SHAPE

ABSTRACT OF THE DISCLOSURE

5 A low pressure discharge lamp with a double helix shape comprises a lamp base and an envelope connected to the lamp base. The envelope has a phosphor coating on an interior surface thereof, and contains a gas fill energizable to a discharge state by electrical voltage. The envelope includes discharge tube sections which are wound about a longitudinal axis and fitted
10 into each other as a double-start thread. The discharge tube sections have first end portions and second end portions. The first end portions are closer to the lamp base and each have a gas-tight sealing and electrodes in the sealing for receiving the electric voltage. The second end portions are farther off the lamp base and each have a gas-tight sealing. These second end portions are bent inwards from a pitch of the helix and extend next to each
15 other spaced apart by a clearance. A passage is formed between said second end portions. The passage is spaced apart by a distance from the sealing of each said second end portion.